AUTODOC CLUB

How to change rocker cover gasket on **BMW 7 (E38)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

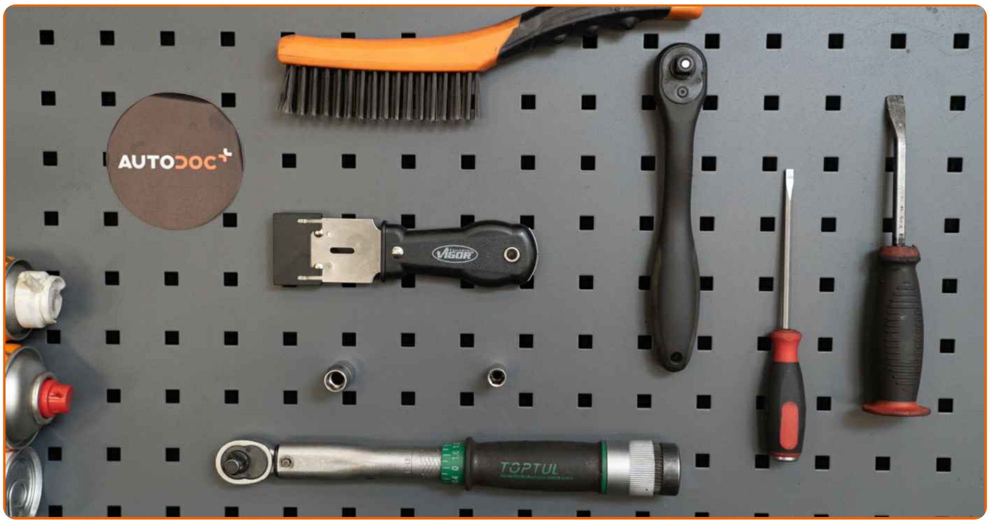
Important!

This replacement procedure can be used for:
BMW 7 (E38) 728i / iL 2.8

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E36) 323i 2.5

REPLACEMENT: ROCKER COVER GASKET – BMW 7 (E38). TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Electronic spray
- Sealant
- Torque wrench
- Drive socket # 8
- Drive socket # 10
- Ratchet wrench
- Seal scraper
- Flat screwdriver
- Crow bar
- Fender cover

Buy tools

Replacement: rocker cover gasket – BMW 7 (E38). AUTODOC experts recommend:

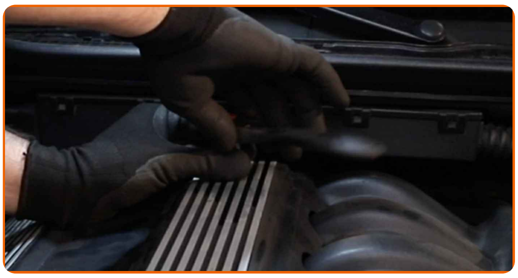
- Replace the gasket every time the valve cover is removed.
- All work should be done with the engine stopped.

REPLACEMENT: ROCKER COVER GASKET – BMW 7 (E38). USE THE FOLLOWING PROCEDURE:

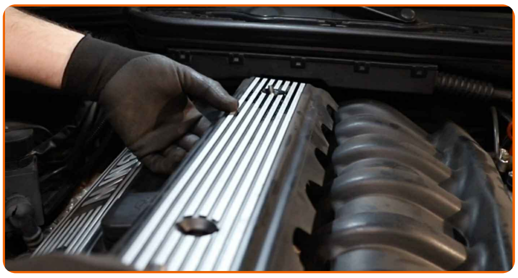
1 Open the hood.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3 Unscrew the engine cover fastener. Use a drive socket #10. Use a ratchet wrench.



4 Remove the engine cover.



AUTODOC recommends:

- Replacement: rocker cover gasket – BMW 7 (E38). Do not use excessive force when removing the part as this may damage it.

5

Unscrew the engine cover fastener. Use a drive socket #10. Use a ratchet wrench. Use a flat screwdriver.



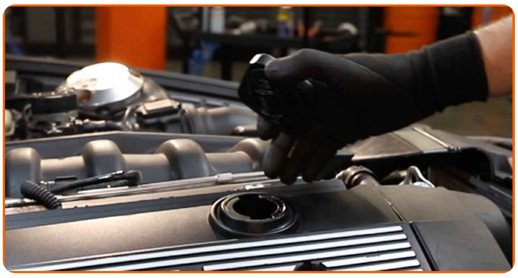
6

Unscrew the oil filler plug.



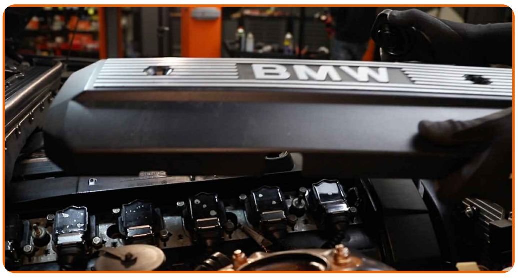
7

Remove the oil filler cap.



8

Remove the engine cover.



AUTODOC recommends:

- Replacement: rocker cover gasket – BMW 7 (E38). To avoid damaging the part when removing it, do not use excessive force.

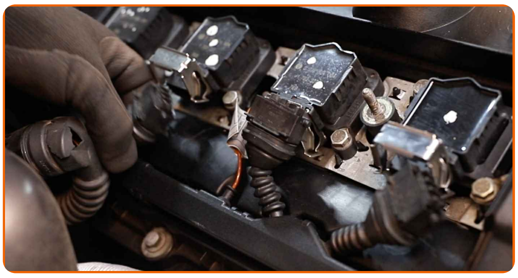
9 Install the oil filler cap.



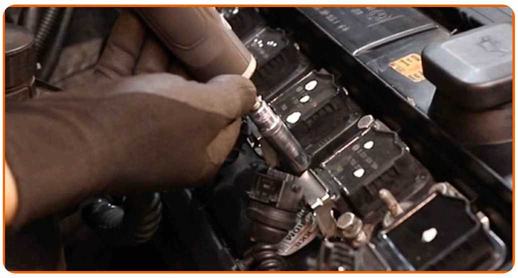
10 Tighten the oil filler cap.



11 Unplug the connectors from the ignition coils. Use a crowbar.



12 Unscrew the fasteners of the ignition coils. Use a drive socket #10. Use a ratchet wrench.



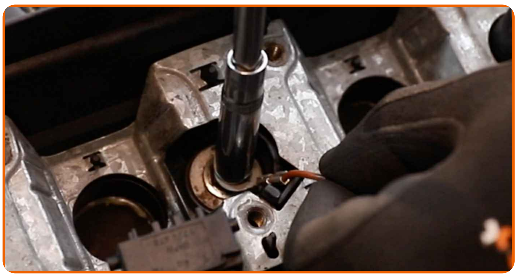
13 Take out the ignition coils from the spark plug wells.



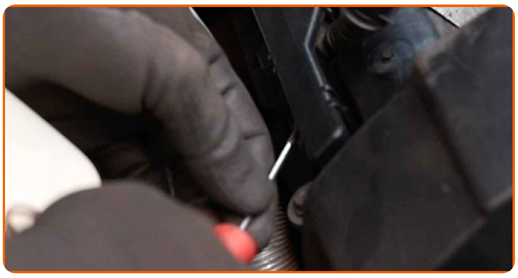
Replacement: rocker cover gasket – BMW 7 (E38). Tip from AUTODOC:

- Remember the sequence of steps for ignition coil demounting.

14 Unscrew the fastener of the chassis (ground) terminal of the ignition coils. Use a drive socket #8. Use a ratchet wrench.

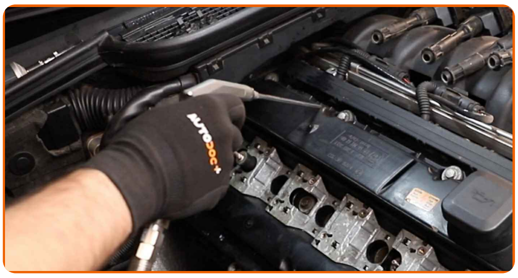


15 Raise a little the wiring of the ignition coils and move it aside. Use a flat screwdriver.



16

Clean dirt, dust and debris from inside the spark plug wells.



17

Remove the crankcase ventilation hose.



18

Unscrew the fastener of the chassis (ground) terminal of the ignition coils. Use a drive socket #8. Use a ratchet wrench.



19

Unscrew the engine valve cover fasteners. Use a drive socket #10. Use a ratchet wrench.



20

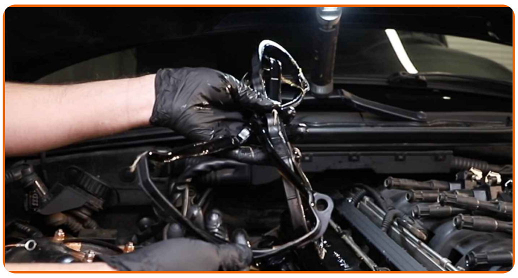
Remove the engine valve cover.



AUTODOC recommends:

- Replacement: rocker cover gasket – BMW 7 (E38). Do not use excessive force when removing the part as this may damage it.
- Be careful to prevent dust and dirt getting into the engine.

21 Remove the valve cover gasket. Use a seal scraper.



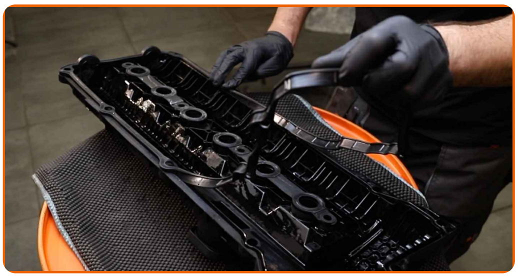
22 Clean the engine valve cover mounting seat. Use a seal scraper. Use all-purpose cleaning spray.



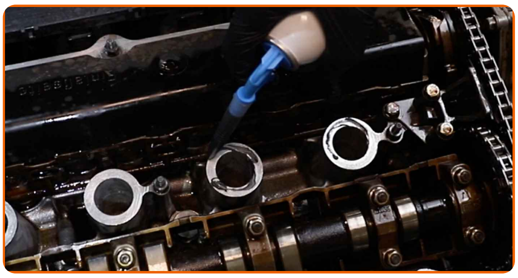
Replacement: rocker cover gasket – BMW 7 (E38). Tip:

- Be careful to prevent dust and dirt getting into the engine.

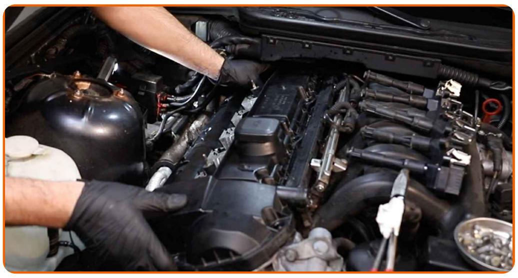
23 Install the engine valve cover gasket.



24 Treat the engine valve cover mounting seat. Use a sealant.



25 Install the engine valve cover.



AUTODOC recommends:

- Replacement: rocker cover gasket – BMW 7 (E38). To avoid damaging the part during installation, do not use excessive force.

26 Clean the valve cover fasteners. Use all-purpose cleaning spray.



27 Tighten the engine valve cover fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 15 Nm torque.



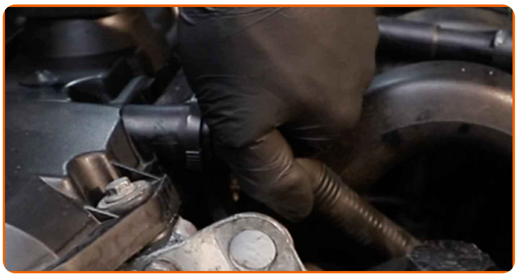
Replacement: rocker cover gasket – BMW 7 (E38). AUTODOC experts recommend:

- Tighten the fasteners in the order shown in the diagram in the manufacturer's instructions.

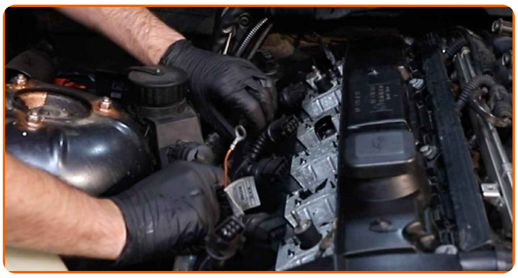
28 Tighten the chassis (ground) terminal of the ignition coils. Use a drive socket #8. Use a ratchet wrench.



29 Install the PCV pipe.



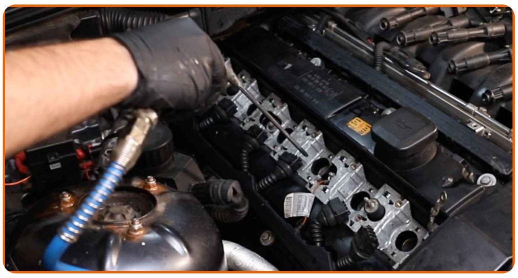
30 Secure the wiring of the ignition coils in its mounting seats.



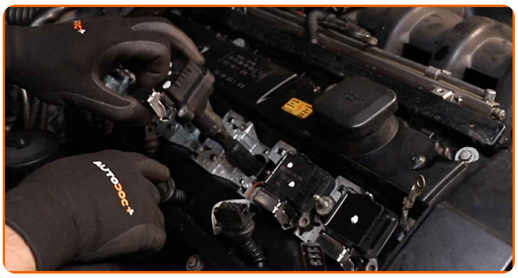
31 Tighten the chassis (ground) terminal of the ignition coils. Use a drive socket #8. Use a ratchet wrench.



32 Clean dirt, dust and debris from inside the spark plug wells.



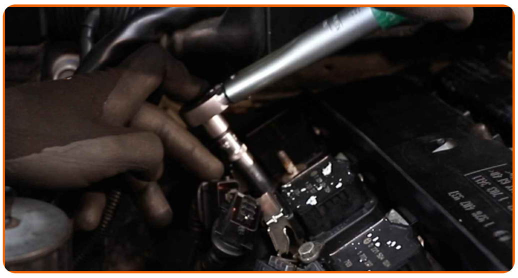
33 Install the ignition coils to the spark plug wells.



Replacement: rocker cover gasket – BMW 7 (E38). Professionals recommend:

- Follow the installation sequence.

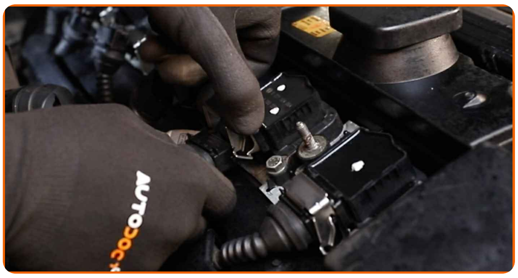
34 Tighten the ignition coil fasteners. Use a drive socket #13. Use a torque wrench. Tighten it to 7 nm torque.



35 Treat the ignition coil connector with electronic spray. Use dielectric grease.



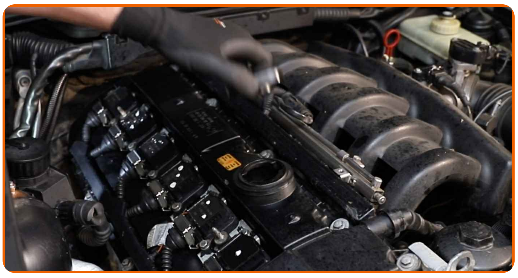
36 Plug in the connectors of the ignition coils.



37 Unscrew the oil filler plug.



38 Remove the oil filler cap.



39 Install the engine cover and secure it.



AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Replacement: rocker cover gasket – BMW 7 (E38). Do not use excessive force during installation. This may damage the part.

40 Install the oil filler cap.



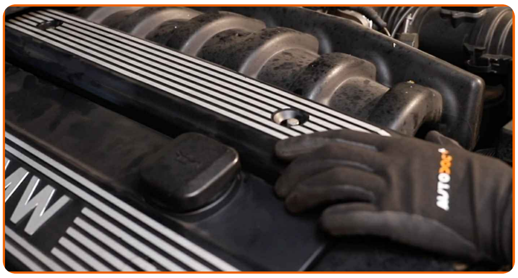
41 Tighten the oil filler cap.



42 Screw in the engine cover fasteners. Use a drive socket #10. Use a ratchet wrench.



43 Install the engine cover and secure it.

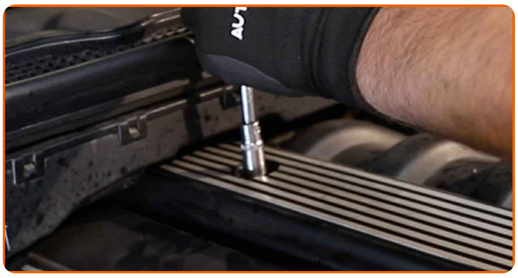


Replacement: rocker cover gasket – BMW 7 (E38). Professionals recommend:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Replacement: rocker cover gasket – BMW 7 (E38). To avoid damaging the part during installation, do not use excessive force.

44

Screw in the engine cover fasteners. Use a drive socket #10. Use a ratchet wrench.



45

Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.



46

Shut off the engine.

47

Remove the fender protection cover.

48

Close the hood.

WELL DONE!

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